

Topics in Algebra solution

Sung Jong Lee, lovekrand.github.io

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Problems in Section 5.8.

1. In S_5 show that $(1, 2)$ and $(1, 2, 3, 4, 5)$ generate S_5 .

Proof. Refer the Problem 11, Section 2.10. □

2. In S_5 show that $(1, 2)$ and $(1, 3, 2, 4, 5)$ generate S_5 .

Proof. If we could generate $(2, 3)$, then $(2, 3)^{-1}(1, 3, 2, 4, 5)(2, 3) = (1, 2, 3, 4, 5)$. Thus, it is enough to show that $(2, 3)$ can be generated by $(1, 2)$ and $(1, 3, 2, 4, 5)$. Note that

$$\{(1, 3, 2, 4, 5)^{-j}(1, 2)(1, 3, 2, 4, 5)^j : j \in \mathbb{Z}\} = \{(1, 2), (3, 4), (2, 5), (4, 1), (5, 3)\}$$

$(1, 2)(1, 3, 2, 4, 5) = (1, 4, 5)(2, 3)$ and $(1, 2)(2, 5)(4, 1) = (1, 5, 2, 4)$. Moreover,

$$(1, 5, 2, 4) \cdot (1, 4, 5)(2, 3) \cdot (5, 3) = (2, 5, 3) \cdot (5, 3) = (2, 3).$$

Therefore, $(1, 2)$ and $(1, 3, 2, 4, 5)$ generates S_5 . □

3. If $p > 2$ is a prime, show that $(1, 2)$ and $(1, 2, \dots, p-1, p)$ generates S_p .

Proof. Refer the Problem 11, Section 2.10. □

4. Prove that any transposition and p -cycle in S_p , p a prime, generates S_p .

Proof. Let $\sigma = (a, b, \dots, c, d)$ and $\tau = (e, f)$ be an p -cycle and a transposition in S_p respectively. Note that, as σ is a p -cycle and hence, for some $1 \leq k \leq p-1$, σ^k sends e to 1. Thus, without lossing of generality, we can assume that $\tau = (1, f')$. Now rearranging σ as $\sigma = (1, a', \dots, c', d')$, there exists $1 \leq t \leq p-1$ such that $\sigma^t = (1, f', \dots,)$. Note that as p being a prime, $(1, f', \dots)$ is also a p -cycle. Just as we have done at the beginning, rearranging $\{1, 2, \dots, p\}$ gives $f' = 2$ and moreover, $(1, 2, \dots, p-1, p)$. Now applying the Problem 3, we conclude that σ and τ generates S_p . □

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